

Prepared in accordance with GB/T 16483 and GB/T 17519

Product name: GLASS CLEANER	SDS No.: EN1017
Revision date: 2022-3-28	Version #: V2.0

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

1.1 Product identifier

Product name: GLASS CLEANER

Product code: - PMGC500

1.2 Uses and uses advised against

Use(s): Glass cleaner

1.3 Details of the supplier of the product

Supplier name: PM Distribution Ltd

Address: 3 Glenford Road, Newtownards, BT23 4AU

Telephone: 028 9181 1130

Website: www.autochoicedirect.co.uk

1.4 Emergency telephone number(s)

Emergency: 028 9181 1130

2. HAZARDAS IDENTIFICATION

2.1 Classification of the substance or mixture

Liquid. Highly flammable. Its vapour and air mixture can form explosive mixture.
Serious irritating to eyes. Vapours may cause drowsiness and dizziness.

2.2 Hazard categories

Flammable Liquids

Category 2

Serious Eye Damage/Irritation

Category 2A

Specific Target Organ Toxicity - Single Exposure: Criteria for narcotic effects

Category 3

2.3 Label elements

Pictograms



Signal word

Danger

Hazard statement

- | | |
|------|---|
| H225 | Highly flammable liquid and vapour. |
| H319 | Causes serious eye irritation. |
| H304 | May be fatal if swallowed and enters airways. |
| H336 | May cause drowsiness or dizziness. |

Precautionary statement

【Prevention】

- | | |
|------|--|
| P210 | Keep away from heat/spark/open flames/hot surfaces. No smoking. |
| P233 | Keep container tightly closed. |
| P240 | Ground and bond container and receiving equipment. |
| P241 | Use explosion-proof [electrical/ventilating/lighting] equipment. |
| P242 | Use non-sparking tools. |
| P243 | Take action to prevent static discharges. |
| P260 | Do not breath dust/fume/gas/mist/vapours/spray. |

【Response】

- | | |
|-----------|--|
| P312 | Call a POISON CENTER/doctor if you feel unwell. |
| P337+P313 | If eye irritation persists: Get medical advice/attention. |
| P370+P378 | In case of fire: Use suitable fire extinguishing medium to extinguish. |

【Storage】

- P405 Store locked up.
- P403+P233 Store in a well-ventilated place. Keep container tightly closed.
- P403+P235 Store in a well-ventilated place. Keep cool.

【Disposal】

- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Physical and chemical hazards

Highly flammable liquids, its vapour and air mixture can form explosive mixture..

Health hazards

Inhalation: Cough. Dizziness. Headache. Sore throat.

Ingestion: Abdominal pain. Laboured breathing. Nausea. Unconsciousness. Vomiting.

Eyes: Redness.

Environment hazards

Please refer to section 12 of the SDS.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture	Mixture		
Substance/mixture		Concentration (%)	CAS No.
Deionized water		60-90	7732-18-5
Nonionic surfactant		5-10	Propriety
Isopropyl alcohol		5-10	67-63-0
Diethylene glycol monobutyl ether		2-5	112-34-5
Triethanolamine		0.1-0.5	102-71-6
Preservative		0.05-0.1	N.A.
DYE		0.05-0.1	N.A.

4. FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation: Move to fresh air. Call a physician if symptoms develop or persist.

Eye contact: Rinse with water. Get medical attention if irritation develops and persists.

Ingestion: Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

4.2 Most important symptoms and effects, both acute and delayed

See Section 11 for more detailed information on health effects and symptoms.

4.3 Personal protection for first aid responders

If exposed or concerned: Get medical advice/attention. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this Safety Data Sheet to the doctor in attendance.

4.4 Special notes to physician

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptom may be delayed.

5. FIRE FIGHTING MEASURES

5.1 Specific hazards

Highly flammable. May evolve toxic gases(Carbon oxide, hydrocarbons) when heated to decomposition. Vapor may explosive mixtures with air. Eliminate all ignition sources including cigarettes, open flames, spark producing switches/tools, heaters, naked lights, etc when handling.

5.2 Extinguishing media

Water fog. Foam. Dry chemical power. Carbon dioxide(CO₂). Prevent contamination

of drains and waterways.

5.3 Special fire fighting procedures

Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up.

5.4 Protection of fire-fighters

Fire-fighters must be use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

6.2 Environmental precautions

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

6.3 Clean-up methods and materials and containment measures

Stop leak if you can do so without risk. Eliminate all ignition sources(no smoking, flares, sparks, or flames in immediate area). Keep combustibles(wood, paper, oil, etc.)away from spilled material. This product is miscible in water. Prevent product from entering drains. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material(e.g. cloth, fleece).Clean surface thoroughly to remove residual contamination. Put material in suitable, covered,

labeled containers. For waste disposal, see section 13 of the SDS.

7. HANDLING AND STORAGE

7.1 Handling

Obtain special instruction before use. Do not handle until all safety precautions have been read and understood. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. Avoid contact with eyes. Avoid prolonged exposure. When using, do not eat, drink or smoke. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Wash contaminated clothing before reuse. Observe good industrial hygiene practices.

7.2 Storage

Keep containers tightly closed. Keep containers in a dry, cool, and well-ventilated place. Keep away from heat/spark/open flames/hot surfaces. Store away from incompatible materials(see section 10 of the SDS).

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Exposure limits

China OELs. Occupational Exposure Limits for Hazardous Agents in the Workplace, Chemical Hazardous Agents(GBZ 2.1-2007)

Components	Cas No.	TWA	STEL
		mg/m ³	mg/m ³
Isopropyl alcohol	67-63-0	350	700
Diethylene glycol monobutyl ether	112-34-5	No data provided	No data provided

Biological limit value

No biological exposure limits noted for the ingredients.

Monitoring methods

Follow standard monitoring procedures.

8.2 Engineering measures

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels to an acceptable level.

8.3 Respiratory protection

If engineering controls are not feasible or if exposure exceeds the applicable exposure limits, use a NIOSH-approved cartridge respirator with an organic vapor cartridge. Use a self-contained breathing apparatus in confined spaces and for emergencies.

8.4 Eye protection

Wear safety glasses with side shields (or goggles).

8.5 Hygiene measures

Observe any medical surveillance requirements. When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	BLUE, TRANSPARENT LIQUIDS		
Odor	SLIGHT ALCOHOL ODOUR	pH	7-8
Odor threshold	NOT AVAILABLE	Boiling point	NOT AVAILABLE

Melting point	NOT AVAILABLE	Flash point	NOT ESTIMATED
Evaporation rate	NOT AVAILABLE	Flammability	FLAMMABLE
Upper explosion limit	NOT AVAILABLE	Lower explosion limit	NOT AVAILABLE
Vapour density (air=1)	>1	Specific gravity	0.95
Solubility(water)	SOLUBLE	Vapour pressure	NOT AVAILABLE
Auto ignition temperature	NOT AVAILABLE	Decomposition temperature	NOT AVAILABLE
Viscosity	NOT AVAILABLE	Explosive properties	NOT AVAILABLE
Oxidising properties	NOT AVAILABLE		

9.2 Other information

% Volatiles 10%

10. STABILITY AND REACTIVITY

10.1 Reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport.

10.2 Stability

Material is stable under normal conditions.

10.3 Incompatibale materials

Strong oxidizing agents. Acids.

10.4 Conditions to avoid

Heat. Spark. Flame. Ignition sources.

10.5 Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

10.6 Hazardous decomposition products

Carbon oxides.

11. TOXICOLOGICAL INFORMATION

11.1 Acute toxicity

Harmful if swallowed, and/or if inhaled.

Components	CAS No.	LD50 (Oral)	LD50 (Dermal)	LC50 (Inhalation)
Isopropyl alcohol	67-63-0	5045mg/kg (Rat)	5045mg/kg (Rat)	No data provided
Diethylene glycol monobutyl ether	112-34-5	5660mg/kg (Rat)	No data provided	No data provided
Triethanolamine	102-71-6	5000-9000mg/kg (Rat)	No data provided	No data provided

11.2 Skin corrosion/irritation

No data provided..

11.3 Serious eye damage/eye irritation

Contact may result in irritation, lacrimation, pain and redness.

11.4 Respiratory or skin sensitization

No data provided.

11.5 Germ cell mutagenicity

No data provided.

11.6 Toxic to reproduction

No data provided.

11.7 Carcinogenicity

No data provided..

11.8 STOT-single exposure

Not classified.

11.9 STOT-repeated exposure

Not classified.

11.10 Aspiration hazard

Not classified.

12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity

No information provided.

12.2 Persistence and degradability

No information provided.

12.3 Bioaccumulative potential

No information provided.

12.4 Mobility in soil

No information provided.

12.5 Other adverse effects

No information provided.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner.

13.2 Local disposal regulations

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

14. TRANSPORT INFORMATION

	CNDG	IMDG	IATA
14.1 UN number	1993	1993	1993
14.2 Proper shipping name	Flammable Liquid, N.O.S	Flammable Liquid, N.O.S	Flammable Liquid, N.O.S
14.3 Transport hazard class	3	3	3
Packing group	II	II	II

14.4 Transport mark



14.5 Environmental hazards: Not available

14.6 Special precautions for user: Read safety instruction, SDS and emergency procedures before handling.

15. REGULATORY INFORMATION

This safety data sheet conforms to the following laws, regulations and standards:

Regulations on the Control over Safety of Dangerous Chemicals

Regulations on Labor Protection in Workplaces Where Toxic Products Are Used

Measures for the safe Use of Chemical in Workplaces

Safety Data Sheet for chemical Products -Content and Order of Sections(GB/T16483)

General Rules for Preparation of Precautionary Labels for Chemicals(GB 15258)

Packing Symbol of Dangerous Goods(GB 190)

Packing -Pictorial Marking for Handling of Goods(GB/T 191)

Classification and Code of Dangerous Goods(GB 6944)

List of Dangerous Goods(GB 12268)

The principle of Classification of Transport Packaging Group of Dangerous Goods
(GB/T 15098)
General Specifications for Transport Packages of Dangerous Goods(GB 12463)
Regulations on Road Transport of Dangerous Goods
Regulations on Railway Transport of Dangerous Goods
UN Recommendations on the Transport of Dangerous Goods(UN RTDG)

16. OTHER INFORMATION

References

EPA: AQUIRE database

NLM: Hazardous Substances Data Base

Disclaimer : The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. This information is accurate. Before using any product, read all warnings and directions on the label. For further clarification of any information contained on this SDS consult your supervisor, a health & safety professional, or PM Distribution Ltd